

Automatic Form and Seal Blister Packaging System



Model: 1004ABP Standard configuration

**SUPERIOR PERFORMANCE.
COMPETITIVE PRICE.**

Automatic Operation

The system will automatically feed the PVC material from reel stock; pressure form and separate the blisters; transfer and spread these to sealing jigs; place backing card (or PVC) on the blister; heat seal (or weld) the pack and finally transfer out the completed pack from end of line.

High speed production

The following processes ensure consistent fast rate of production of up to 25 cycles per minute. Contact heating is used to give the rapid, precise heating of the plastic for high speed forming. Accurate temperature control of the heating platens is maintained by PLC with feedback from thermocouples. The machines use the unique Ridat twin heat sealing presses in tandem so that high speed, low pressure card sealing can be employed.

Material waste minimised

Side clamping of blister flange is used to avoid edge trim waste. The minimum flange on the material edges of outer blister is 10 mm.

These are some of the most advanced models in the comprehensive range of RIDAT blister packaging equipment and designed for high volume users. Modular format facilitates the use of the conveyor sections as a stand alone fully automated blister sealing system.

Typical Applications

Blister Packing of:

Fasteners, Super Glue, Hardware, Tools,
Toys, Automotive Accessories, Stationery,
Cosmetics, Audio Cassettes and Batteries.

Synchronised operation

Synchronisation of each stage is automatic. Timing sequences are set up in a PLC so that all machine functions can be precisely adjusted. The conveyor is driven from a single motor and with cycle on demand.

Versatility

Machines can be adapted to meet a wide range of requirements. Different sizes and shapes of blister can be formed; alternative card sizes may be used.

Straightforward tooling

Standard tooling consists of female pressure forming moulds using plug assistance where necessary. Inexpensive, quick release wooden sealing jigs are mounted on trays on the conveyor. The trays are supported from below during the sealing process.

Reliability

High quality components are used throughout. Where necessary, air cylinder movements are supported by robust guide rods, and typically the conveyor jigs are carried on heavy duty chains.

Safety features

Fixed side and rear guards complete the arrangement and the whole system conforms to Machinery Directive 9 /37/EC, Low Voltage Directive 73/23/EEC and Electromagnetic Compatibility Directive 89/336/EC, to harmonized standards. The machine will be CE marked in accordance with current European legislation and a Certificate of Conformity will be provided as part of the standard documentation.

Other machine options

All RIDAT blister packaging systems are available in varying configurations to suit the product to be packed and the space available. In addition, the blister forming section can be supplied as an independent unit for manufacturing and stacking blisters. Similarly, the sealing conveyor can also be used as an independent unit in which blisters can be loaded either manually or automatically. These independent machines retain the automatic functions of fully automatic systems.

Automatic blister and card sensing

Sensors check that blisters and cards are in position in the jigs. If there is no blister, the card will not be withdrawn from the card hopper. If no card is present, the sealing presses will not operate: this prevents the possibility of the blisters getting stuck to the underside of the sealing press.

The RIDAT range of thermoforming machines and associated processing equipment covers:

- vacuum and pressure forming machines;
- skin and blister packaging equipment.

Brief Technical Specification*

Standard Layout		1004 ABP	1607 ABP
Forming section (Maximum dimensions)			
Blister width	mm (inch)	254 (10)	406 (16)
Blister length	mm (inch)	102 (4)	178 (7)
Blister depth	mm (inch)	38 (1 _)	102 (4)
Material width	mm (inch)	254 (10)	406 (16)
Conveyor section (Maximum dimensions)			
Card length	mm (inch)	286 (11 _)	457 (18)
Card width	mm (inch)	102 (4)	178 (7)
Blister depth	mm (inch)	38 (1 _)	102 (4)
Total Power Consumption	kW	8.8	15.0
Air Consumption per cycle	litres	85 litres (3 cu ft)	226 litres (8 cu ft)
Floor area, approximate	cm, (ft)	457 x 122 (12 x 4)	793 x 152 (26 x 5)

*The above figures should be taken as typical example only; complete specifications will be supplied on request.

The above figures should be taken as typical example only; layout drawings and complete specifications will be supplied for specific machines.

Standard power supplies are 415 V 50 Hz phase 4 wire and clean, water-free air at 5.4 atirn (80 lbf/in2).

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